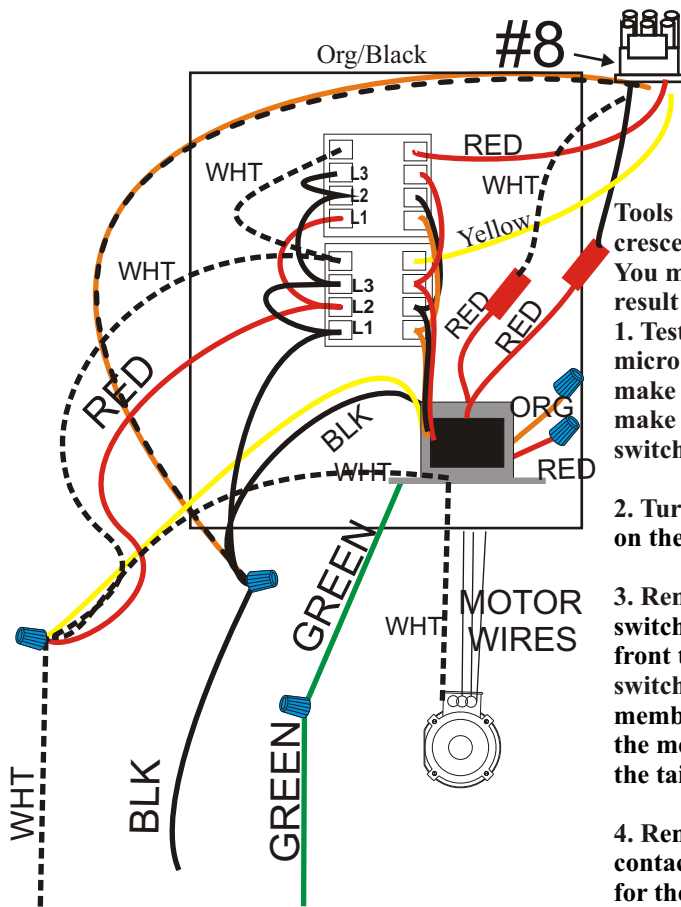


Air System Conversion Process to a Gem PWC 2007 unit.

6/17/08

Conversion kit will work with 110 Volt coil contactors. Auto-Stop will not work with this unit due to 110 VAC coils.



15-25 minutes to install.

Tools needed: Phillips & regular screwdrivers, needle nose pliers, wire crimpers, crescent wrench for switch, drill and 5/8 inch bit, wasp spray killer and tape. You must follow all steps to insure proper operation. Failure to do so could result in injury to you or damage to the remote or the lift.

1. Test the old unit. Make sure old micro switches work. Press the metal arm on the micro switch by the bellows. The red wire and the red hose on one micro switch will make the lift go down. The yellow wires and yellow hose on the other micro switch make the lift goes up, if your unit goes in the wrong direction then you will have to switch red for yellow in step four.

2. Turn off power to dock. Check that unit does not operate. Stick the transformer on the bottom of the box using the double stick tape.

3. Remove the old bellows and micro switch, pry up with a screwdriver. Remove air switch hose and plug hole with 3/4 inch black plug. Place the new gem sticker on the front top of the box as high as you can. Then for positions place the new membrane switch sticker below this sticker note where the tail comes out of the back of the membrane switch. Drill the 5/8 hole in this spot then place tail in this hole and place the membrane switch sticker here. Tape the tail to the back of the box to strain relief the tail. If you had an up/down toggle switch, you will need to remove this.

4. Remove the old micro switch yellow wire from the bottom right-hand side of the contactor and replace with the yellow wire from the new harness, then do the same for the red. You will notice a small black (red) wire on the left-hand side of the contactor. Remove this wire. This wire was the common for the micro switches. The Org/blk wire will connect to the main feed black with the black wire from the transformer.

5. The transformer needs 115 volts you will need to attach the black wire to the main feed black.

Attach the yellow transformer wire to the neutral(WHITE) it should also be attached to the GEM Red, motor white.

6 Attach the new board to the cove of the of the box using the double stick tape. Plug in the membrane switch tail pin 1 goes on the left side of the electronic board when the LED are on top right.

7. Turn on the power to the remote. See that the LED on the board flashes. Test the up and down buttons make sure that the lift goes in the correct direction, if not switch the small yellow and red wires on the right hand side of the contactor.

8. Tape the antenna to the side of the cover of the box, make sure the antenna wire is as straight as possible. Do not cut or lengthen the antenna wire.

9. The transmitter should have been programmed by Gem Remotes. If your transmitter does not work, press the learn button. The learn LED should light up on the receiver board. Program your receiver by pressing the stop button on the remote. The LED should turn off and programming is complete, the lift should move in the direction of the remote. Old 2 button yellow transmitters will not work with this unit.

11. Turn off the power to your GEM unit when not in use. Failure to do so could result in damage to your lift, boat etc.

GEM build notes: add orange with blk strip to harness (pin #3) move org board wire to 3. zip tie to blk transformer, cut and solder orange to back side of up/down relay, cut off jumper white and crimp this to transformer red, then crimp the black wire harness to the red transformer, for safety cut the trace next to relay from the blue cap C13. Mark plug with 110 volt. tape off org and red on input on transformer.

Parts: pwc m/s, 3/4 plug, **GEM 3X6 sticker**, transformer + tape, sph7004, 7004, 7240, 1 butt connector.